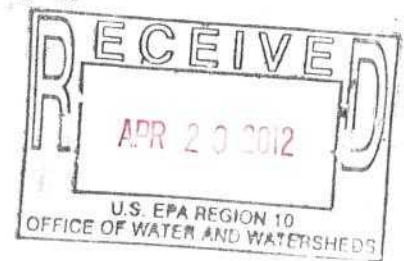




**United States Department of the Interior
Fish and Wildlife Service
Leavenworth National Fish Hatchery Complex
Entiat, Leavenworth and Winthrop Salmon Hatcheries
12790 Fish Hatchery Road
Leavenworth, WA 98826
Phone: (509) 548-7641
Fax: (509) 548-3401**

April 17, 2012

Lindsay Guzzo
Environmental Engineer
Environmental Protection Agency
Office of Water and Watersheds
1200 Sixth Ave
NPDES Permits Unit OWW-130
Seattle, WA 98101
Phone: (206) 553-0268
Fax: (206) 553-1280
Email: guzzo.lindsay@epa.gov



RE: National Pollutant Discharge Elimination System (NPDES) Permit - Updated Information
for Leavenworth National Fish Hatchery (Outfall #6)

Mrs. Guzzo,

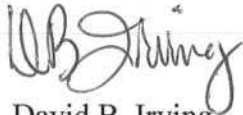
The Leavenworth National Fish Hatchery (LNFH) submitted a new NPDES permit application on October 24, 2011 to the Environmental Protection Agency. In that application, LNFH proposed to pump a portion of discharge water destined for Outfall #1 upstream to a new discharge point (Outfall #6, ~ rm 3.3) in the Hatchery Channel section (rm 2.8 to 3.8) of Icicle Creek. At the time the application was submitted, LNFH stated that the details for this new proposed discharge point would be provided within 6 months.

The purpose of Outfall #6 is to recharge LNFH's wells. The LNFH operates seven wells which produce the quality of water needed to sustain its fish production program. Currently, LNFH needs between 1,060 and 6,590 gpm of ground water during its fish production cycle. The hatchery's wells draw water from two aquifers, one deep and one shallow. Wells 1 through 4 and 7 draw water solely from the shallow aquifer, well 5 from the deep aquifer, and well 6 draws water from both. The shallow aquifer is influenced by surface water. Recharge of the shallow aquifer is directly affected by how much water is present in the hatchery channel. The hatchery channel is dewatered when the stream flow in Icicle Creek above both channels is approximately below 300 cfs and flow into the historical channel is unrestricted. Dewatering of the hatchery

channel can occur in late summer, fall, and early winter for short or long periods of time. Dewatering of the hatchery channel reduces recharge to the shallow aquifer causing groundwater levels and pumping capacities to drop when wells are in production. Further information on Outfall #6 has been included in the enclosed, revised CONTINUATION SHEET from EPA FORM 3510-2B (Rev. 11-08).

If further information is required please contact Malenna Cappellini the Leavenworth Fisheries Complex's Environmental Compliance Biologist at (509) 548-2928 or malenna_cappellini@fws.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read "DB Irving". The signature is stylized with a large, looped "D" and "I".

David B. Irving,
Leavenworth Fisheries Complex Manager

CONTINUATION SHEET from EPA FORM 3510-2B (Rev. 11-08)

A.

1. <i>OUTFALL No. (see operational description below)</i>	2. <i>FLOW (gallons per day)</i>		
	<i>a. Maximum Daily</i>	<i>b. Maximum 30 Day</i>	<i>c. Long Term Average</i>
1	32,800,000	984,000,000	26,000,000
2	8,640,000	259,200,000	288,000
3	0	0	0
4	5,760,000	172,800,000	5,040,000
5	72,000	1,008,000	72,000
6	32,800,000	984,000,000	8,100,000

Outfall #1: Base of Fish (Adult Return) Ladder

The majority of river and well water used for hatchery operations returns to Icicle Creek from Outfall #1 near the base of the adult return ladder (~ rm 2.8) except during rearing unit cleaning and maintenance activities when all water is routed through the pollution abatement ponds. All river water and groundwater used at the hatchery, minus any leakage and evaporation, is returned to Icicle Creek (non-consumptive use).

Outfall #2: Pollution Abatement Ponds

As of 2011, Leavenworth NFH has a second functional pollution abatement pond. When online, both pollution abatement ponds discharge into Icicle Creek at Outfall #2 (~rm 2.7). Outfall #2 is used during rearing unit cleaning and maintenance activities.

Outfall #3: Overflow Canal from the Screen Chambers

Currently, Outfall #3 (~rm 3.8) is not used as a discharge point by the hatchery. However, the hatchery wishes to retain this discharge point for potential future use. In the past, Outfall #3 was operated intermittently as a fish return bypass for the hatchery's water delivery system.

Outfall #4: Top of Fish (Adult Return) Ladder

In the past, Outfall #4 was used for 1 to 2 weeks a year in late April to release hatchery pre-smolts into Icicle Creek (~ rm 2.8). Currently, pre-smolts are pumped from rearing units through an above ground pipeline into Icicle Creek at approximately rm 2.75 (Outfall #5). However, the hatchery wishes to retain Outfall #4 for emergency releases and potential future use. When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #4.

Outfall #5: Pumped/Piped Fish Release

Outfall #5 is currently used for 1 to 2 weeks a year in late April to release hatchery pre-smolts which are pumped from rearing units through an above ground pipeline into Icicle Creek (~ rm 2.75). When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #5.

CONTINUATION SHEET from EPA FORM 3510-2B (Rev. 11-08) page 2

Outfall #6: Pump Discharge to Hatchery Channel

Outfall #6 (~rm 3.3) in the Hatchery Channel section (rm 2.8 to 3.8) of Icicle Creek will be used, as necessary, to recharge LNFH's wells. When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #6. (The long term average of 8,100,000 gallons per day was estimated from the calculation of pumping 53 cfs continuous for 3 months, or 26 cfs for 6 months).

B. Rearing and holding units currently in operation at Leavenworth NFH include:

- 2, 15' x 150' adult holding raceways
- 45, 8' x 80' raceways
- 14, 10' x 100' covered raceways
- 122 fiberglass tanks
- 16 of 40 small Foster-Lucas rearing units
- 2 of 22 large Foster-Lucas rearing units

C.1. Icicle Creek is the receiving water body.

C.2. Leavenworth NFH's water sources include Icicle Creek, Snow/Nada Lake Basin, and 7 wells. The hatchery's water rights include:

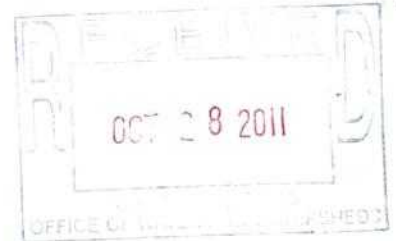
CERTIFICATE #	PRIORITY DATE	SOURCE	AMOUNT
1824	03/26/1942	Icicle Creek	42 cfs (18,851 gpm)
1825	03/26/1942	Snow & Nada Lakes	16,000 acre feet
016378	08/01/1939	Groundwater (1 Wells)	1.56 cfs (700 gpm)
016379	06/01/1940	Groundwater (1 Wells)	2.01 cfs (900 gpm)
3103-A	10/16/1957	Groundwater (1 Wells)	2.67 cfs (1200 gpm)
G4-27115C	10/20/1980	Groundwater (4 Wells)	8.69 cfs (3900 gpm)



**United States Department of the Interior
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Fax: (509) 548-3401**

October 24, 2011

Lindsay Guzzo
Environmental Engineer
Environmental Protection Agency
Office of Water and Watersheds
1200 Sixth Ave
NPDES Permits Unit OWW-130
Seattle, WA 98101
Phone: (206) 553-0268
Fax: (206) 553-1280
Email: guzzo.lindsay@epa.gov



RE: National Pollutant Discharge Elimination System (NPDES) Permit - Updated Information
for Leavenworth National Fish Hatchery

Mrs. Guzzo,

Leavenworth National Fish Hatchery (LNFH) has made significant changes to its operations since the 2005 submittal for a NPDES permit. These changes include but are not limited to a reduction in production from 1.625 million to 1.2 million spring Chinook salmon; the use of a low phosphorus feed during the critical months of March, April, July, August, and September with the exception of fry in the nursery building; and the construction and operation of a second pollution abatement pond. These changes in operations were initiated to improve the health of the hatchery's spring Chinook salmon and to improve the quality of water (lower phosphorus) discharged into Icicle Creek. Also, in 2011 through the endangered species consultation process with the U.S. Fish and Wildlife Service, LNFH further outlined and detailed all hatchery operation and maintenance activities. Since 2005, LNFH personnel have supplied this information to the Environmental Protection Agency (EPA) to update its current NPDES permit application. In recent discussions with EPA and WA Department of Ecology staff, it became clear that LNFH needed to resubmit a NPDES permit application to ensure that EPA receives all necessary information and to eliminate confusion.


Enclosed is an updated Form 1: General Information, Form 2B NPDES application for a permit to discharge wastewater from an aquatic animal production facility, a Continuation Sheet for Form 2B, and the March 2011 Biological Assessment for the Operation and Maintenance of Leavenworth National Fish Hatchery.

If further information is required please contact Malenna Cappellini the Leavenworth Fisheries Complex's Environmental Compliance Biologist at (509) 548-2928 or malenna_cappellini@fws.gov.


Sincerely,

A handwritten signature in blue ink, appearing to read 'Al Jensen', with a long horizontal flourish extending to the right.

Al Jensen,
Leavenworth NFH Manager

FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER																
LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION PLEASE PLACE LABEL IN THIS SPACE		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">S</td> <td style="width:85%;"></td> <td style="width:5%;">T/A</td> <td style="width:5%;">C</td> </tr> <tr> <td>F</td> <td></td> <td></td> <td>D</td> </tr> <tr> <td>1</td> <td>2</td> <td>13</td> <td>14</td> </tr> </table>		S		T/A	C	F			D	1	2	13	14				
		S		T/A	C														
		F			D														
		1	2	13	14														
GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.																			
II. POLLUTANT CHARACTERISTICS																			
INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms .																			
SPECIFIC QUESTIONS		Mark "X"	Mark "X"																
		YES	NO																
		FORM ATTACHED	FORM ATTACHED																
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S. ? (FORM 2A)		X	X																
		16	17																
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	X																
		22	23																
E. Does or will this facility treat, store, or dispose of hazardous wastes ? (FORM 3)		X	X																
		28	29																
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	X																
		34	35																
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	X																
		40	41																
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S. ? (FORM 2B)		X	X																
		19	20																
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S. ? (FORM 2D)		X	X																
		25	26																
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	X																
		31	32																
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	X																
		37	38																
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	X																
		43	44																
III. NAME OF FACILITY																			
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C	SKIP	USFWS Leavenworth National Fish Hatchery																	
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15	16 - 29	30																	
IV. FACILITY CONTACT																			
A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">C</td> <td style="width:95%;">Jensen, Al, Hatchery Manager</td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>15</td> <td>16</td> </tr> </table>		C	Jensen, Al, Hatchery Manager	2		15	16	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">C</td> <td style="width:95%;">(509) 548-2917</td> </tr> <tr> <td>45</td> <td>46</td> </tr> <tr> <td>48</td> <td>49</td> </tr> <tr> <td>51</td> <td>52</td> </tr> <tr> <td>55</td> <td></td> </tr> </table>		C	(509) 548-2917	45	46	48	49	51	52	55	
C	Jensen, Al, Hatchery Manager																		
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C	(509) 548-2917																		
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V. FACILITY MAILING ADDRESS																			
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VI. FACILITY LOCATION																			
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E. ZIP CODE		F. COUNTY CODE (if known)																	
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C	98826																		
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CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)																			
A. FIRST										B. SECOND									
C	7	0	9	2	1	(specify) Fish Hatchery													
15	16	19																	
C. THIRD										D. FOURTH									
C	7	(specify)									C	7	(specify)						
15	16	19																	
VIII. OPERATOR INFORMATION																			
A. NAME													B. Is the name listed in Item VIII-A also the owner?						
C	8	U.S. Fish and Wildlife Service, Leavenworth Fisheries Complex											<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
15	16	55 66																	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)													D. PHONE (area code & no.)						
F = FEDERAL					M = PUBLIC (other than federal or state)					F (specify)					A (509) 548-7641				
S = STATE					O = OTHER (specify)					56					15 16 19 21 22 26				
P = PRIVATE																			
E. STREET OR P.O. BOX																			
12790 Fish Hatchery Road																			
26 55																			
F. CITY OR TOWN										G. STATE	H. ZIP CODE	IX. INDIAN LAND							
C	B	Leavenworth									WA	98826	Is the facility located on Indian lands?						
15	16	40 41 42 47 51 52																	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																			
X. EXISTING ENVIRONMENTAL PERMITS																			
A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
C	9	N	WA-000190-2							C	9	P							
15	16	17	30																
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
C	9	U								C	9	(specify)							
15	16	17	30																
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
C	9	R								C	9	(specify)							
15	16	17	30																
XI. MAP																			
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.																			
XII. NATURE OF BUSINESS (provide a brief description)																			
Currently, LNFH targets a release of 1.2 million spring Chinook salmon pre-smolts into Icicle Creek (approx. rm 2.7) during late April. Also, LNFH supports the Yakama Nation's Coho Reintroduction Project by providing hatchery facilities for part of its expanded coho salmon production program. Approximately, 500,000 coho salmon are released into Icicle Creek. For further details on hatchery production see Attachment A (Biological Assessment for the Operation and Maintenance of Leavenworth National Fish Hatchery, March 2011).																			
XIII. CERTIFICATION (see instructions)																			
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.																			
A. NAME & OFFICIAL TITLE (type or print)										B. SIGNATURE					C. DATE SIGNED				
Allen Jensen, Hatchery manager															10/24/11				
COMMENTS FOR OFFICIAL USE ONLY																			
C																			
15	16	55																	

Form 1: xl. map (1) LNFH

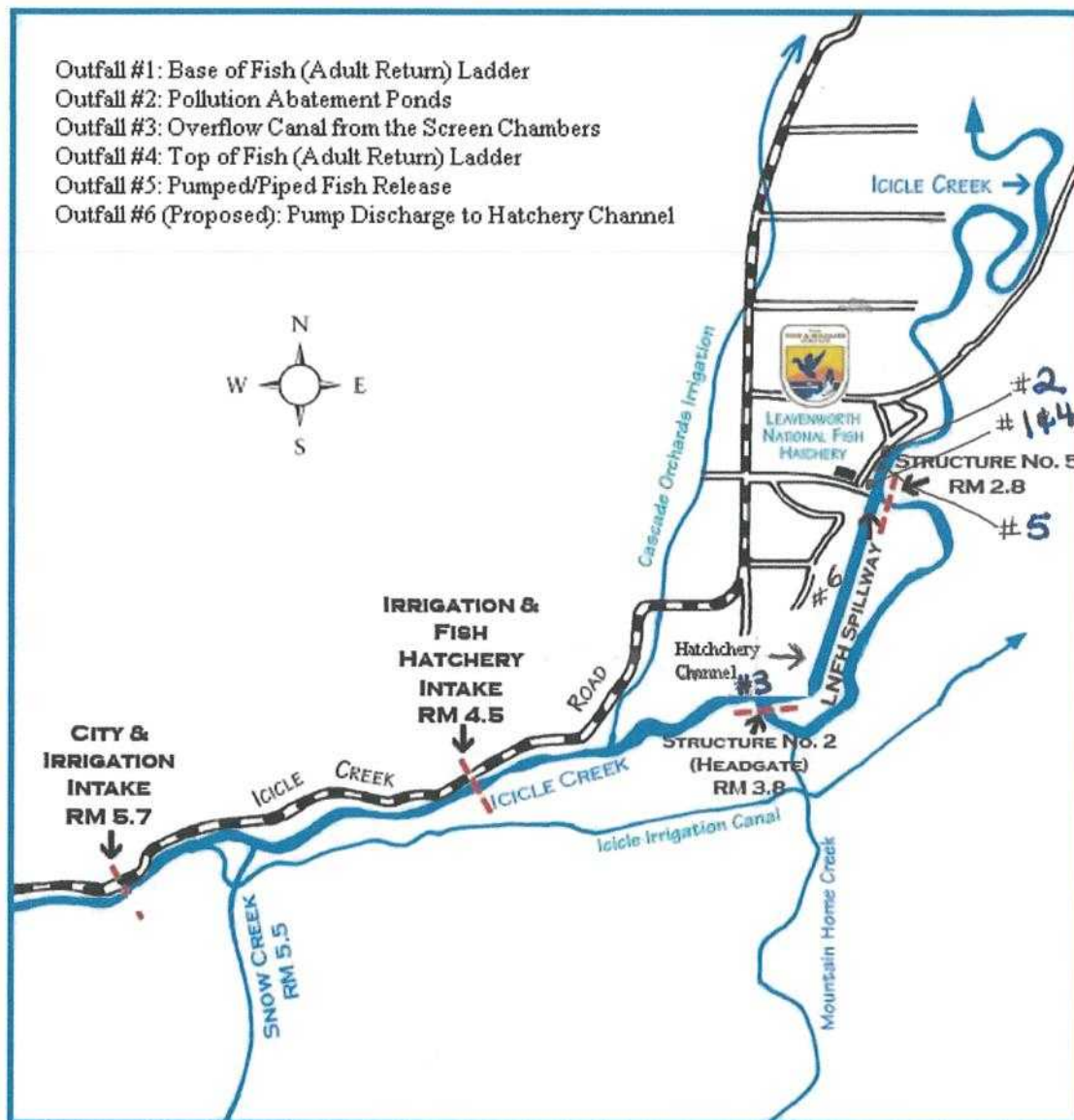


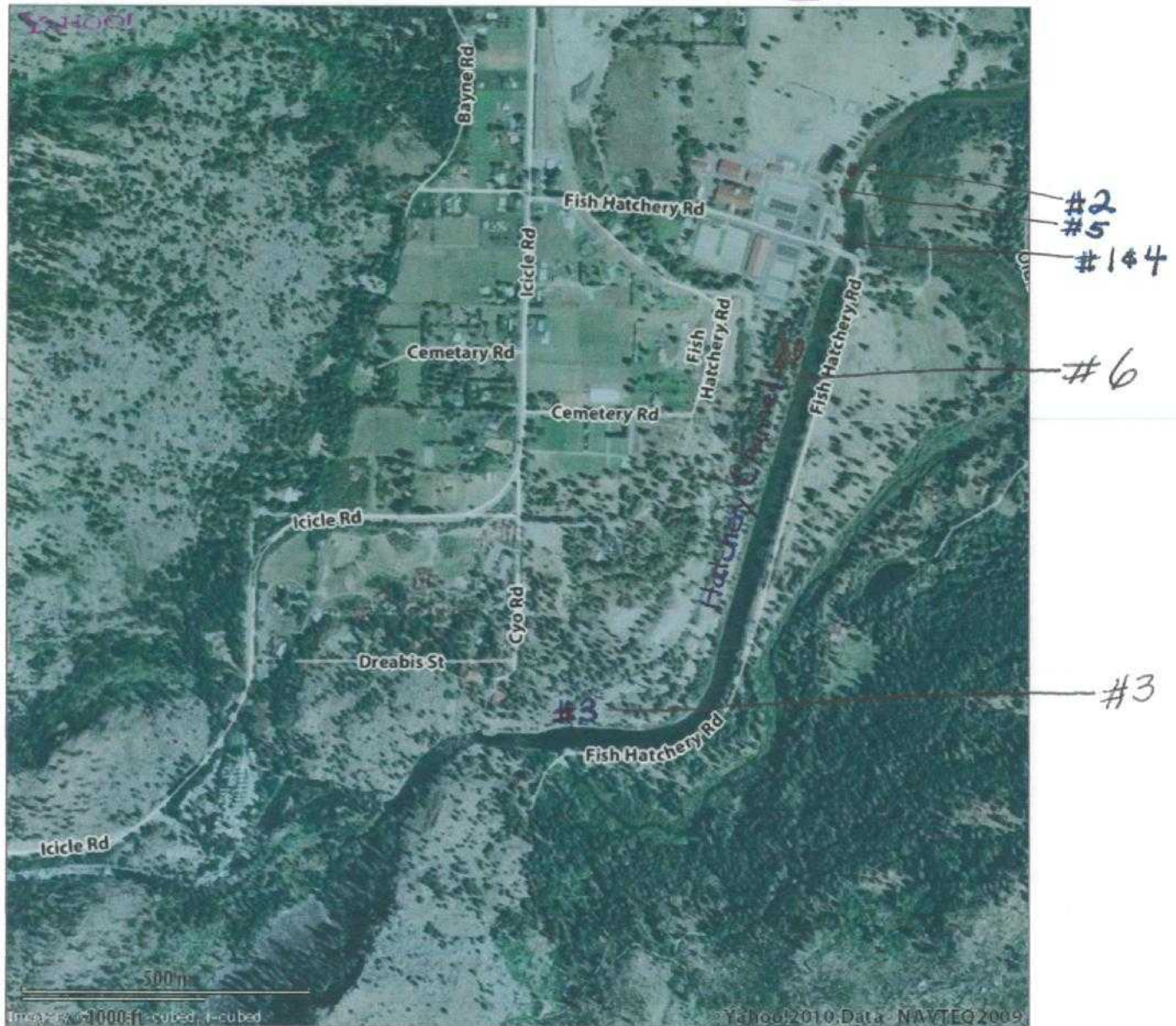
Figure 1. Leavenworth National Fish Hatchery and Vicinity



Form 1. x1. Map(2) L O H

Map of Leavenworth, WA


YAHOO!



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

EPA I.D. NUMBER (copy from Item 1 of Form 1)																																
FORM 2B NPDES	EPA U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATIONS FOR PERMIT TO DISCHARGE WASTEWATER CONCENTRATED ANIMAL FEEDING OPERATIONS AND AQUATIC ANIMAL PRODUCTION FACILITIES																															
I. GENERAL INFORMATION Applying for: Individual Permit <input type="checkbox"/> Coverage Under General Permit <input type="checkbox"/>																																
A. TYPE OF BUSINESS <input type="checkbox"/> 1. Concentrated Animal Feeding Operation (complete items B, C, D, and section II) <input checked="" type="checkbox"/> 2. Concentrated Aquatic Animal Production Facility (complete items B, C, and section III)	B. CONTACT INFORMATION Owner/or Operator Name: <u>Al Jensen, Hatchery Manager</u> Telephone: (<u>509</u>) <u>548-2917</u> Address: <u>12790 Fish Hatchery Road</u> Facsimile: (<u>509</u>) <u>548-3401</u> City: <u>Leavenworth</u> State: <u>Wa</u> Zip Code: <u>98826</u>	C. FACILITY OPERATION STATUS <input checked="" type="checkbox"/> 1. Existing Facility <input type="checkbox"/> 2. Proposed Facility																														
D. FACILITY INFORMATION Name: <u>USFWS Leavenworth National Fish Hatchery</u> Telephone: (<u>509</u>) <u>548-7641</u> Address: <u>12790 Fish Hatchery Road</u> Facsimile: (<u>509</u>) <u>548-3401</u> City: <u>Leavenworth</u> State: <u>WA</u> Zip Code: <u>98826</u> County: <u>Chelan</u> Latitude: <u>S26 T24N R17E</u> Longitude: _____ If contract operation: Name of Integrator: _____ Address of Integrator: _____																																
II. CONCENTRATED ANIMAL FEEDING OPERATION CHARACTERISTICS																																
A. TYPE AND NUMBER OF ANIMALS		B. MANURE, LITTER, AND/OR WASTEWATER PRODUCTION AND USE																														
1. TYPE	2. ANIMALS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">NO. IN OPEN CONFINEMENT</th> <th style="width: 50%;">NO. HOUSED UNDER ROOF</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/> Mature Dairy Cows</td><td></td></tr> <tr><td><input type="checkbox"/> Dairy Heifers</td><td></td></tr> <tr><td><input type="checkbox"/> Veal Calves</td><td></td></tr> <tr><td><input type="checkbox"/> Cattle (not dairy or veal calves)</td><td></td></tr> <tr><td><input type="checkbox"/> Swine (55 lbs. or over)</td><td></td></tr> <tr><td><input type="checkbox"/> Swine (under 55 lbs.)</td><td></td></tr> <tr><td><input type="checkbox"/> Horses</td><td></td></tr> <tr><td><input type="checkbox"/> Sheep or Lambs</td><td></td></tr> <tr><td><input type="checkbox"/> Turkeys</td><td></td></tr> <tr><td><input type="checkbox"/> Chickens (Broilers)</td><td></td></tr> <tr><td><input type="checkbox"/> Chickens (Layers)</td><td></td></tr> <tr><td><input type="checkbox"/> Ducks</td><td></td></tr> <tr><td><input type="checkbox"/> Other: Specify _____</td><td></td></tr> <tr> <td colspan="2">3. TOTAL ANIMALS</td> </tr> </tbody> </table>	NO. IN OPEN CONFINEMENT	NO. HOUSED UNDER ROOF	<input type="checkbox"/> Mature Dairy Cows		<input type="checkbox"/> Dairy Heifers		<input type="checkbox"/> Veal Calves		<input type="checkbox"/> Cattle (not dairy or veal calves)		<input type="checkbox"/> Swine (55 lbs. or over)		<input type="checkbox"/> Swine (under 55 lbs.)		<input type="checkbox"/> Horses		<input type="checkbox"/> Sheep or Lambs		<input type="checkbox"/> Turkeys		<input type="checkbox"/> Chickens (Broilers)		<input type="checkbox"/> Chickens (Layers)		<input type="checkbox"/> Ducks		<input type="checkbox"/> Other: Specify _____		3. TOTAL ANIMALS		1. How much manure, litter, and wastewater is generated annually by the facility? _____ tons _____ gallons 2. If land applied how many acres of land under the control of the applicant are available for applying the CAFOs manure/litter/wastewater? _____ acres 3. How many tons of manure or litter, or gallons of wastewater produced by the CAFO will be transferred annually to other persons? _____ tons _____ gallons
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C. <input type="checkbox"/> TOPOGRAPHIC MAP			
D. TYPE OF CONTAINMENT, STORAGE AND CAPACITY			
1. Type of Containment	Total Capacity (in gallons)		
<input type="checkbox"/> Lagoon			
<input type="checkbox"/> Holding Pond			
<input type="checkbox"/> Evaporation Pond			
<input type="checkbox"/> Other: Specify _____			
2. Report the total number of acres contributing drainage: _____ acres			
3. Type of Storage	Total Number of Days	Total Capacity (gallons/tons)	
<input type="checkbox"/> Anaerobic Lagoon			
<input type="checkbox"/> Storage Lagoon			
<input type="checkbox"/> Evaporation Pond			
<input type="checkbox"/> Aboveground Storage Tanks			
<input type="checkbox"/> Belowground Storage Tanks			
<input type="checkbox"/> Roofed Storage Shed			
<input type="checkbox"/> Concrete Pad			
<input type="checkbox"/> Impervious Soil Pad			
<input type="checkbox"/> Other: Specify _____			
E. NUTRIENT MANAGEMENT PLAN			
Note: Effective February 27, 2009, a permit application is not complete until a nutrient management plan is submitted to the Permitting Authority.			
1. Please indicate whether a nutrient management plan has been included with this permit application. <input type="checkbox"/> Yes <input type="checkbox"/> No			
2. If no, please explain:			
3. Is a nutrient management plan being implemented for the facility? <input type="checkbox"/> Yes <input type="checkbox"/> No			
4. The date of the last review or revision of the nutrient management plan. Date: _____			
5. If not land applying, describe alternative use(s) of manure, litter, and/or wastewater:			
F. LAND APPLICATION BEST MANAGEMENT PRACTICES			
Please check any of the following best management practices that are being implemented at the facility to control runoff and protect water quality:			
<input type="checkbox"/> Buffers <input type="checkbox"/> Setbacks <input type="checkbox"/> Conservation tillage <input type="checkbox"/> Constructed wetlands <input type="checkbox"/> Infiltration field <input type="checkbox"/> Grass filter <input type="checkbox"/> Terrace			

III. CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY CHARACTERISTICS						
A. For each outfall give the maximum daily flow, maximum 30-day flow, and the long-term average flow.			B. Indicate the total number of ponds, raceways, and similar structures in your facility.			
1. Outfall No.	2. Flow (gallons per day)			1. Ponds	2. Raceways	3. Other
	a. Maximum Daily	b. Maximum 30 Day	c. Long Term Average	C. Provide the name of the receiving water and the source of water used by your facility.		
See Attached Continuation Sheet for III. A, B, & C						
				1. Receiving Water	2. Water Source	
D. List the species of fish or aquatic animals held and fed at your facility. For each species, give the total weight produced by your facility per year in pounds of harvestable weight, and also give the maximum weight present at any one time.						
1. Cold Water Species			2. Warm Water Species			
a. Species	b. Harvestable Weight (pounds)		a. Species	b. Harvestable Weight (pounds)		
	(1) Total Yearly	(2) Maximum		(1) Total Yearly	(2) Maximum	
Spring Chinook salmon	75,000	80,000	N/A			
Coho salmon	10,000	33,000				
E. Report the total pounds of food during the calendar month of maximum feeding.			1. Month April	2. Pounds of Food 14,000		
IV. CERTIFICATION						
<i>I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.</i>						
A. Name and Official Title (print or type) Al Jensen, LNFH Manager			B. Telephone (509) 548-2917			
C. Signature 			D. Date Signed 10/24/11			

CONTINUATION SHEET from EPA FORM 3510-2B (Rev. 11-08)

A.

1. <i>OUTFALL No. (see operational description below)</i>	2. <i>FLOW (gallons per day)</i>		
	<i>a. Maximum Daily</i>	<i>b. Maximum 30 Day</i>	<i>c. Long Term Average</i>
1	32,800,000	984,000,000	26,000,000
2	8,640,000	259,200,000	288,000
3	0	0	0
4	5,760,000	172,800,000	5,040,000
5	72,000	1,008,000	72,000
6 – Proposed	unknown	unknown	unknown

Outfall #1: Base of Fish (Adult Return) Ladder

The majority of river and well water used for hatchery operations returns to Icicle Creek from Outfall #1 near the base of the adult return ladder (~ rm 2.8) except during rearing unit cleaning and maintenance activities when all water is routed through the pollution abatement ponds. All river water and groundwater used at the hatchery, minus any leakage and evaporation, is returned to Icicle Creek (non-consumptive use).

Outfall #2: Pollution Abatement Ponds

As of 2011, Leavenworth NFH has a second functional pollution abatement pond. When online, both pollution abatement ponds discharge into Icicle Creek at Outfall #2 (~rm 2.7). Outfall #2 is used during rearing unit cleaning and maintenance activities.

Outfall #3: Overflow Canal from the Screen Chambers

Currently, Outfall #3 (~rm 3.8) is not used as a discharge point by the hatchery. However, the hatchery wishes to retain this discharge point for potential future use. In the past, Outfall #3 was operated intermittently as a fish return bypass for the hatchery's water delivery system.

Outfall #4: Top of Fish (Adult Return) Ladder

In the past, Outfall #4 was used for 1 to 2 weeks a year in late April to release hatchery pre-smolts into Icicle Creek (~ rm 2.8). Currently, pre-smolts are pumped from rearing units through an above ground pipeline into Icicle Creek at approximately rm 2.75 (Outfall #5). However, the hatchery wishes to retain Outfall #4 for emergency releases and potential future use. When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #4.

Outfall #5: Pumped/Piped Fish Release

Outfall #5 is currently used for 1 to 2 weeks a year in late April to release hatchery pre-smolts which are pumped from rearing units through an above ground pipeline into Icicle Creek (~ rm 2.75). When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #5.

CONTINUATION SHEET from EPA FORM 3510-2B (Rev. 11-08) page 2

Outfall #6 (Proposed): Pump Discharge to Hatchery Channel

Leavenworth NFH is proposing to pump a portion of discharge water destined for Outfall #1 upstream to a new discharge point (Outfall #6) in the Hatchery Channel section (rm 2.8 to 3.8) of Icicle Creek. The details of where, when, and how much discharge will be released at proposed Outfall #6 are currently being determined by Leavenworth NFH. The hatchery will provide this information to EPA within the next 6 months.

B. Rearing and holding units currently in operation at Leavenworth NFH include:

- 2, 15' x 150' adult holding raceways
- 45, 8' x 80' raceways
- 14, 10' x 100' covered raceways
- 122 fiberglass tanks
- 16 of 40 small Foster-Lucas rearing units
- 2 of 22 large Foster-Lucas rearing units

C.1. Icicle Creek is the receiving water body.

C.2. Leavenworth NFH's water sources include Icicle Creek, Snow/Nada Lake Basin, and 7 wells. The hatchery's water rights include:

CERTIFICATE #	PRIORITY DATE	SOURCE	AMOUNT
1824	03/26/1942	Icicle Creek	42 cfs (18,851 gpm)
1825	03/26/1942	Snow & Nada Lakes	16,000 acre feet
016378	08/01/1939	Groundwater (1 Wells)	1.56 cfs (700 gpm)
016379	06/01/1940	Groundwater (1 Wells)	2.01 cfs (900 gpm)
3103-A	10/16/1957	Groundwater (1 Wells)	2.67 cfs (1200 gpm)
G4-27115C	10/20/1980	Groundwater (4 Wells)	8.69 cfs (3900 gpm)